



UNITED STATES PATENT AND TRADEMARK OFFICE

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments regarding Statement of Reasons for Allowance".

3. Authorization for this amendment was given by attorney David C. Jenkins (Reg. No. 42694) on 01/15/2010. Additions to the claims are reflected by underline (example) and deletions are reflected by strikethrough (~~example~~).

Title: ~~System and Method for Implementing A Wireless Access Protocol Push~~

System and Method for Implementing A Wireless Access Protocol Push by
Establishing Connection-Oriented Signaling Channel for Transmitting Session Initiation
Request

Claim:

11. (Currently Amended) A method for initiating a Wireless Access Protocol (WAP) push session to receive push information from a push proxy gateway at a mobile station in a wireless communication network, the method comprising:

in response to a request from a push proxy gateway to push information from a push proxy gateway to the mobile station, establishing a connection-oriented signalling channel between the network and the mobile station and receiving a session initiation request at the mobile station using said connection-oriented signalling channel; and

activating a bearer for establishing a push session towards the push proxy gateway in response to the session initiation request to permit the push proxy gateway to push information to the mobile station using the activated bearer, the bearer being distinct from the connection-oriented signalling channel;

wherein the connection-oriented signalling channel used to transmit the session initiation request comprises a channel for transmitting Unstructured Supplementary Service Data (USSD)[[.]];

receiving information pushed from the push proxy gateway using the activated bearer.

30. (Currently Amended) A mobile station for initiating a Wireless Access Protocol (WAP) push session to receive push information from a push proxy gateway via a wireless communication network, the mobile station comprising:

a communications system for transmitting and receiving via the wireless network;
a processor coupled to the communication system for processing received messages and messages for sending; and
a memory coupled to the processor for storing instructions to configure the processor to:

in response to a request to push information from a push proxy gateway to the mobile station, establish a connection-oriented signalling channel between the network and the mobile station and receive a session initiation request at the mobile station using said connection-oriented signalling channel; and

activate a bearer, the bearer being distinct from the connection-oriented signalling channel, to establish a push session towards the push proxy gateway in response to the session initiation request to permit the push proxy gateway to push information to the mobile station;

wherein the connection-oriented signalling channel over which the session initiation request is received comprises a channel for transmitting Unstructured Supplementary Service Data (USSD).

4. Claims 1-5, 7-14, 16-19, 29-30 to be relabeled as 1-19

Reasons for Allowance

5. The following is an Examiner's statement for reasons for allowance.

6. Claims 1-5, 7-14, 16-24, 26-31 are considered allowable since when reading the claims in light of the specification, as per MPEP § 2111.01, In re Donaldson Co., Inc.,

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29 USPQ 2d 1845, 1850 (Fed. Cir. 1994), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims 1, 11, 29 and 30 including claim 1

“... in response to a request from a push proxy gateway to push information from the push proxy gateway to the mobile station, establishing a connection-oriented signalling channel between the network and the mobile station” (supported at e.g., ¶ 0027- ¶0029, ¶0030-¶0032),

“... using said connection-oriented signalling channel to transmit a session initiation request ...” (supported at e.g., ¶ 0024, ¶0029),

“...wherein the connection-oriented signalling channel used to transmit the session introduction request comprises a channel for transmitting Unstructured Supplementary Service Data (USSD)” (supported at e.g., ¶ 0024, ¶0029),

claim 11

“... in response to a request from a push proxy gateway to push information from a push proxy gateway to the mobile station, establishing a connection-oriented signalling channel between the network and the mobile station and receiving a session initiation request at the mobile station using said connection-oriented signalling channel” (supported at e.g., ¶0024, ¶0027-¶0029, ¶0030-¶0032) and

“...wherein the connection-oriented signalling channel used to transmit the session initiation request comprises a channel for transmitting Unstructured Supplementary Service Data (USSD)” (supported at e.g., ¶ 0024, ¶0029),

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claim 29

“... transmit a session initiation request to the mobile station by establishing a connection-oriented signalling channel between the network and the mobile station in response to a request to push information from a push proxy gateway to the mobile station and using said connection-oriented signalling channel to transmit said session initiation received request from the push proxy gateway to the mobile station”

(supported at e.g., ¶0024, ¶0027-¶0029, ¶0030-¶0032),

“... wherein the connection-oriented signalling channel used to transmit the session initiation request comprises a channel for transmitting Unstructured Supplementary Service Data (USSD)” (supported at e.g., ¶ 0024, ¶0029), and

claim 30

“... in response to a request to push information from a push proxy gateway to the mobile station, establish a connection-oriented signalling channel between the network and the mobile station and receive a session initiation request at the mobile station using said connection-oriented signaling channel”(supported at e.g., ¶0024, ¶0027-¶0029, ¶0030-¶0032) and

“... wherein the connection-oriented signalling channel over which the session initiation request is received comprises a channel for transmitting Unstructured Supplementary Service Data (USSD)” (supported at e.g., ¶ 0024, ¶0029).

A disclosed method or system is provided of effectively delivering an session initiation request. When a push proxy gateway has information to push to a mobile station, the network in response to a request from the push proxy gateway establishes a

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connection-oriented signalling channel, specifically a channel for transmitting USSD.

The channel is used to transmit the session initiation request to the mobile station. In response, the mobile station activates a bearer for establishing a push session towards the push proxy gateway. The bearer is distinct from the connection-oriented signalling channel.

The closest prior art is 'Over The Air over HTTP', in which a session initiation request is transmitted via a connection oriented signalling channel if such a channel exists. Reference 'Over The Air over HTTP' fails to teach establishing a connection-oriented signalling channel for transmitting an SIR. Secondary references include Lewontin (US Pub. No. 20050071419 A1) and WAP Push Architectural Overview (WAP-250-PUSHARCHOverview-20010703-p). Either Lewontin or WAP Push Architectural Overview teaches establishing a connection-oriented channel for data transmission. In both references, the connection-oriented channel is established after and not for the session initiation request transmission. Reference WAP Over GSM USSD (WAP-204-WAPOverGSMUSSD-20010730-a) teaches USSD as full-duplex channel, not to be used for session initiation request transmission. The combined teachings of the references fail to teach or suggest establishing a USSD connection-oriented signalling channel to transmit the session initiation request for the WAP push.

7. When taken in context the claim(s) as a whole was/were not uncovered in the prior art i.e., the dependent claims are allowed as they depend upon an allowable independent claim.

Correspondence Information

8. Any inquires concerning this communication or earlier communications from the examiner should be directed to LiWu Chang, who may be reached Monday through Thursday, between 10:00 a.m. and 6:00 p.m. EST. or via telephone at (571) 270-3809 or facsimile transmission (571) 270-4809 or email li-wu.chang@uspto.gov. If you need to send an Official facsimile transmission, please send it to (571) 273-8300. If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, David Vincent, may be reached at (571) 272-3080. Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street, Alexandria, VA 22313), the first floor of the south side of the Randolph Building.

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/L. C./
Examiner, Art Unit 2129
January 15, 2010
/David R Vincent/

Supervisory Patent Examiner, Art Unit 2129